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APPLICATION NO.	.   F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,344	07/18/2003		Ebo H. Croffie	02-6088	5018	
24319	7590	06/28/2005		EXAMINER		
LSI LOGIO				MOHAMEDULI	LA, SALEHA R	
MS: D-106	LK LAIVE	•		ART UNIT	PAPER NUMBER	
MILPITAS,	CA 950	35		1756		
				DATE MAILED: 06/28/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	Ļ."				
	_	10/623,344	CROFFIE ET AL.					
Office Actio	on Summary	Examiner	Art Unit					
		Saleha R. Mohamedulla	1756					
The MAILING DA Period for Reply	TE of this communication app	ears on the cover sheet with the	correspondence address					
A SHORTENED STATUTHE MAILING DATE O  Extensions of time may be ava after SIX (6) MONTHS from the lif the period for reply specified if NO period for reply is specific. Failure to reply within the set of	F THIS COMMUNICATION. ilable under the provisions of 37 CFR 1.13 e mailing date of this communication. above is less than thirty (30) days, a reply ed above, the maximum statutory period w rextended period for reply will, by statute, e later than three months after the mailing	IS SET TO EXPIRE 3 MONTH  36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE date of this communication, even if timely file	mely filed ys will be considered timely. n the mailing date of this communication ED (35 U.S.C. § 133).					
Status								
1) Responsive to co	mmunication(s) filed on 24 M	<u>arch 2005</u> .						
2a)⊠ This action is FIN	AL. 2b)☐ This	action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4a) Of the above of 5) ☐ Claim(s) is 6) ☒ Claim(s) <u>1-4,8-13</u> 7) ☐ Claim(s) is	and 19 is/are rejected.	vn from consideration.						
Application Papers								
9) The specification i	s objected to by the Examine	r.						
10) The drawing(s) file	ed on is/are: a) acce	epted or b) objected to by the	Examiner.					
Applicant may not r	equest that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
<u> </u>	•	ion is required if the drawing(s) is ob aminer. Note the attached Office		).				
Priority under 35 U.S.C. §	119			·				
a) All b) Some  1. Certified co  2. Certified co  3. Copies of the application	e * c) None of:  pies of the priority documents  pies of the priority documents  ne certified copies of the prior  from the International Bureau	s have been received in Applicat ity documents have been receiv	tion No ed in this National Stage					
Attachment(s)								
1) Notice of References Cited (		4) Interview Summary						
Notice of Draftsperson's Pat     Information Disclosure State     Paper No(s)/Mail Date	ement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)					

#### **DETAILED ACTION**

Claims 1-4, 8-13 and 19 are pending. The objections and 35 U.S.C. 102 rejection are withdrawn in view of Applicant's amendments to the claims.

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 8-13 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by US# 6,410,191 to Nistler.

Nistler teaches a method for forming a photomask includes providing a transparent substrate and forming an opaque layer over at least a first portion of the transparent substrate. The opaque layer is patterned to define a mask pattern and expose at least a second portion of the transparent substrate. The second portion is etched to define a phase shifting region. The width of the phase shifting region defines a critical dimension. The critical dimension is measured, and the phase shifting region is etched based on the critical dimension to undercut the optically opaque layer. A photomask includes a transparent substrate and a phase shifting region defined in the transparent substrate. The phase shifting region includes sloped sidewalls (abstract). Pattern 110 in the figures is an opaque chromium patterning layer. The figures show that the substrate is etched in a sloped fashion under the chrome pattern. This inherently

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enhances phase edge darkening effects. The mask is used for exposure. Nistler teaches a 180 degree phase shift (col. 4, line 55).

## Response to Arguments

3. Applicant's arguments with respect to the claim have been considered but are moot in view of the new ground(s) of rejection.

#### Action is Final

4. THIS ACTION IS MADE FINAL. Applicant's amendment necessitated the new grounds of rejection. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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### Conclusion

5. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Saleha Mohamedulla whose telephone number is (571) 272-1387. The Examiner can normally be reached Monday-Friday, from 8:00 AM to 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Mark Huff, can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saleha R. Mohamedulla

Patent Examiner

Technology Center 1700

June 17, 2005